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Solid paint mixes - addition of gypsum to improve finish

Patent Assignee: RIGA CHEMICAL WORKS (RIG -N)

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Patent Family:

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Priority Applications (No Type Date): SU 1404051 A 19700209

Abstract (Basic): SU 313839 A

Paint mixes which after dilution with water and addition of  
painters glue provide protective and decorative finish comprise (in %  
wt) 0.6-20 pigment, 5-6 kaolin and 74-94 partially calcined gypsum.

Derwent Class: G02

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**SPECIFICATION**  
**attached to Author's Certificate**

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**(54) DRY PAINT FOR INTERNAL FINISHING OF SURFACES OF BUILDINGS AND STRUCTURES**

The present invention relates to dry paints for internal finishing of plastered, brick, concrete, and wallpapered (old wallpaper) surfaces of homes, industrial buildings and public structures.

A dry paint for internal finishing of surfaces of buildings and structures is known, this paint containing a pigment and a mineral filler.

The object of the present invention is to improve the painting and decorative properties of the paint.

This object is attained by the paint containing as a filler a mixture of powdered kaolin and partially calcined gypsum with the content of gypsum hemihydrate of 1-20%, with the content ratio of components being as follows, wt.%:

Pigment	0.6-20
Filler:	
kaolin	5-6
partially calcined gypsum	74-94

After diluting with water and adding a painting glue, the paint has improved adhesion to the surface because  $\text{CaSO}_4 \cdot \frac{1}{2}\text{H}_2\text{O}$  is converted into  $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$  on the painted surface. At the same time, because the content ratio of  $\text{CaSO}_4 \cdot \frac{1}{2}\text{H}_2\text{O}$  in the paint is no more than 18%, the painting properties of the paint are improved. When the content ratio of  $\text{CaSO}_4 \cdot \frac{1}{2}\text{H}_2\text{O}$  is above this level, the painting properties are degraded.

The dry paint effectively fills pores and recesses on the surface painted.

### Patent Claim

A dry paint for internal finishing of the surface of buildings and structures, comprising a pigment and a mineral filler, *characterized* in that, with the object of improving painting and decorative properties of the paint, it contains as a filler a mixture of powdered kaolin and partially calcined gypsum with the content of gypsum hemihydrate of 1-20%, with the content ratio of components being as follows, wt.%:

Pigment	0.6-20
Filler:	
kaolin	5-6
partially calcined gypsum	74-94

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